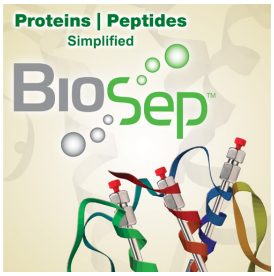
HPLC Application

ID No.: **18893**

Albumin and IgG (2:3) on BioSep2000 (2)



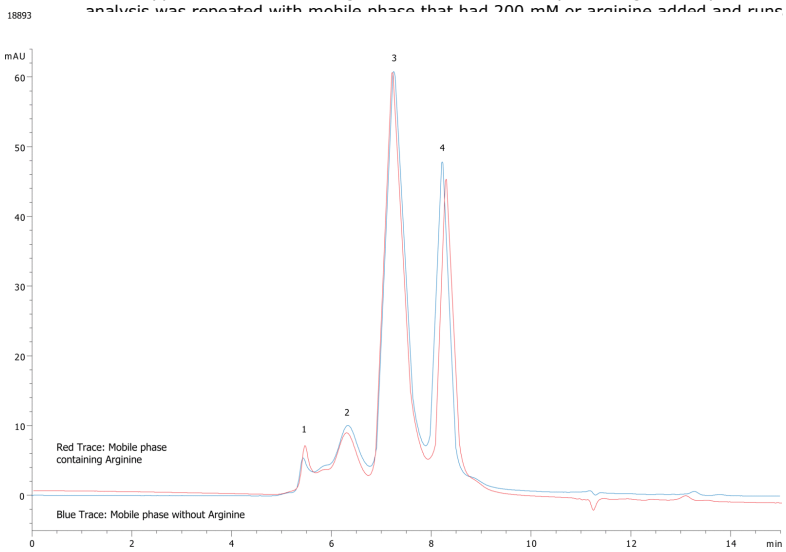
Products used in this application:

Column: BioSep™ 5 µm SEC-s2000 145 Å, LC Column 300 x 7.8 mm, Ea
Dimensions: 300 x 7.8 mm ID
Order No: 00H-2145-K0
Elution Type: Isocratic
Eluent A: 100mM Phosphate buffer ± 200mM Arginine pH 6.8

Gradient Profile:	**Step No.**	**Time (min)**	**Pct A**
	1	0	100

Flow Rate: 1 mL/min
Col. Temp.: ambient
Detection: UV-Vis Abs.-Variable Wave.(UV) @ 280 nm (ambient)
Analyst Note: Application Topic: Inertness of GFC phases and accurate aggregate analysis

Protein aggregation is the post translational modification of most interest for those developing protein therapeutics. GFC chromatography has been the "gold standard" method for quantitating aggregates in therapeutic proteins for over twenty years, however recent concerns have arisen that In this application a mixture of Ig-G and albumin was analyzed using a BioSep 2000 using a 100 mM phosphate buffer pH 6.8 mobile phase. The analysis was repeated with mobile phase that had 200 mM of arginine added and runs were overlaid. Any significant differences in protein recovery



ANALYTES:

1. aggregate
2. IgG dimer
3. IgG monomer
4. BSA monomer peak